

## **APPENDIX D**

### **ECONOMIC IMPACTS**

---

## Appendix D

### Economic Impacts

The tables in this appendix present the data used in the analysis of regional economic impacts in Chapter 4, Section 4.11. Below are summaries of each of these tables. See Section 4.11 for additional descriptions of economic impacts.

*Table 1: Lowest Employment/Expenditure Combination of Zortman-Landusky Alternatives.* This table shows the direct employment and expenditures of the two least-cost alternatives, one each for Zortman (Alternative Z2) and Landusky (Alternative L2). Combining these two alternatives shows the lowest level of employment and expenditures that could be anticipated for reclamation activities. Table 1 also shows estimated total economic activity, which includes the multiplier effect of additional rounds of spending in the local area due to direct spending by the contractor and wage earners.

*Table 2: Highest Employment/Expenditure Combination of Zortman-Landusky Alternatives.* This table shows the direct employment and expenditures of the two highest-cost alternatives, one each for Zortman (Alternative Z5) and Landusky (Alternative L6). Combining these two alternatives shows the highest level of employment and expenditures that could be anticipated for reclamation activities. Table 2 also shows estimated total economic activity, which includes the multiplier effect of additional rounds of spending in the local area due to direct spending by the contractor and wage earners.

*Table 3: Direct Expenditures for Zortman Reclamation Alternatives.* Table 3 shows estimated total employment and reclamation costs for each year of reclamation activity, and also what portion of employment and expenditures would come from the study area vs. outside the study area. These costs are accompanied by an estimated time period for completion of reclamation, based on estimated costs and the nature of the work to be performed under each alternative. It should be noted that once the contract is issued after selection of alternatives, the actual distribution of local vs. non-local expenditures may differ from the analyses presented here as well as the total time needed to complete reclamation.

*Table 4: IMPLAN analysis Inputs for Zortman Direct Expenditures.* Table 4 shows the total annual costs broken out more specifically into categories which can be input into the INPLAN Input-Output Modelling system in order to estimate the multiplier effect of local spending. For example, costs were broken down by local vs. non-local spending and further broken down by labor (wages), capital (major equipment purchases), and supplies (operating expenses). The category of spending identified as “local expenditures” was then used to estimate the multiplier effect of local spending.

*Table 5: Direct Expenditures for Landusky Reclamation Alternatives.* This is the same as Table 3 except it presents data for the Landusky Mine.

*Table 6: IMPLAN Analysis Inputs for Landusky Direct Expenditures.* This is the same as Table 4 except it presents data for the Landusky Mine.

**Table 1: Lowest Employment/Expenditure Combination of Zortman - Landusky Alternatives**

<b>ALTERNATIVE: Z2</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>		
Years of Reclamation	X	1	2		
Reclamation Workforce:					
Hired locally (Phillips/Blaine)	4	17	22		
Hired from outside local area	2	0	1		
Total Workforce	6	17	23		
Reclamation Costs:					
Capital Purchases	\$0	\$0	\$1,888,000		
Labor Expenses	\$216,000	\$612,000	\$828,000		
Supplies (local purchase)	\$50,000	\$200,000	\$200,000		
Supplies (nonlocal purchase)	\$189,000	\$2,000,000	\$2,483,000		
Total Annual Costs	\$455,000	\$2,812,000	\$5,399,000		
Long-term maintenance and LAD Costs	\$1,358,000				
<b>Total Reclamation &amp; Maintenance Costs for Life of Project</b>	<b>\$10,024,000</b>				
<b>ALTERNATIVE: L2</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>
Years of Reclamation	X	1	2	3	4
Reclamation Workforce:					
Hired locally (Phillips/Blaine)	6	17	20	10	10
Hired from outside local area	0	0	1	0	0
Total Workforce	6	17	21	10	10
Reclamation Costs:					
Capital Purchases	\$0	\$0	\$0	\$0	\$0
Labor Expenses	\$216,000	\$612,000	\$756,000	\$360,000	\$360,000
Supplies (local purchase)	\$100,000	\$200,000	\$200,000	\$200,000	\$200,000
Supplies (nonlocal purchase)	\$574,000	\$1,030,000	\$1,296,000	\$4,034,000	\$4,033,000
Total Annual Costs	\$890,000	\$1,842,000	\$2,252,000	\$4,594,000	\$4,593,000
Long-term maintenance and LAD Costs	\$5,429,000				
<b>Total Reclamation &amp; Maintenance Costs for Life of Project</b>	<b>\$19,600,000</b>				
<b>TOTAL COST FOR Z2 &amp; L2 COMBINED</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>
Years of Reclamation	X	1	2	3	4
Reclamation Workforce:					
Hired locally (Phillips/Blaine)	10	34	42	10	10
Hired from outside local area	2	0	2	0	0
Total Workforce	12	34	44	10	10
Reclamation Costs:					
Capital Purchases	\$0	\$0	\$1,888,000	\$0	\$0
Labor Expenses	\$432,000	\$1,224,000	\$1,584,000	\$360,000	\$360,000
Supplies (local purchase)	\$150,000	\$400,000	\$400,000	\$200,000	\$200,000
Supplies (nonlocal purchase)	\$763,000	\$3,030,000	\$3,779,000	\$4,034,000	\$4,033,000
Total Annual Costs	\$1,345,000	\$4,654,000	\$7,651,000	\$4,594,000	\$4,593,000
Long-term maintenance and LAD Costs	\$6,787,000				
<b>Total Reclamation &amp; Maintenance Costs for Life of Projects</b>	<b>\$29,624,000</b>				
<b>Estimated Total Annual Economic Impact to Study Area</b>					
	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>
	X	1	2	3	4
Final Demand (Direct Local Expenditures)	N/A	\$1,244,600	\$1,521,700	\$1,120,800	\$1,120,800
Total Industry Output	N/A	\$1,458,800	\$1,765,600	\$1,295,700	\$1,295,700
Value Added:					
Employee Compensation	N/A	\$310,800	\$609,100	\$239,100	\$239,100
Total Value Added	N/A	\$658,400	\$1,317,700	\$518,100	\$518,100
Employment (total full-time and part-time jobs)	N/A	62	96	31	31
Source: Spectrum Engineering (October, 2000b); IMPLAN Input-Output Modelling System (1999)					



**Table 3: Direct Expenditures for Zortman Reclamation Alternatives**

Table of Direct Expenditures for Potential Reclamation Alternatives									
ALTERNATIVE: Z1									
	1999	2000	2001	2002	2003				
Years of Reclamation	X	1	2	3	4				
Reclamation Workforce:									
Hired locally (Phillips/Blaine)	4	17	20	10	10				
Hired from outside local area	2	0	1	1	1				
Total Workforce	6	17	21	11	11				
Reclamation Costs:									
Capital Purchases	\$0	\$0	\$0	\$0	\$0				
Labor Expenses	\$216,000	\$612,000	\$756,000	\$152,000	\$148,000				
Supplies (local purchase)	\$50,000	\$200,000	\$200,000	\$190,000	\$190,000				
Supplies (nonlocal purchase)	\$189,000	\$2,000,000	\$5,725,000	\$6,024,000	\$6,022,000				
Total Annual Costs	\$455,000	\$2,812,000	\$6,681,000	\$6,366,000	\$6,360,000				
Long-term maintenance and LAD Costs: \$2,946,000 (annualized over 3 years)	\$0	\$0	\$982,000	\$982,000	\$982,000				
Total Reclamation & Maintenance Costs for Life of Project	\$25,620,000								
ALTERNATIVE: Z2									
	1999	2000	2001						
Years of Reclamation	X	1	2						
Reclamation Workforce:									
Hired locally (Phillips/Blaine)	4	17	22						
Hired from outside local area	2	0	1						
Total Workforce	6	17	23						
Reclamation Costs:									
Capital Purchases	\$0	\$0	\$1,888,000						
Labor Expenses	\$216,000	\$612,000	\$828,000						
Supplies (local purchase)	\$50,000	\$200,000	\$200,000						
Supplies (nonlocal purchase)	\$189,000	\$2,000,000	\$2,483,000						
Total Annual Costs	\$455,000	\$2,812,000	\$5,399,000						
Long-term maintenance and LAD Costs	\$0	\$0	\$1,358,000						
Total Reclamation & Maintenance Costs for Life of Project	\$10,024,000								
ALTERNATIVE: Z3									
	1999	2000	2001						
Years of Reclamation	X	1	2						
Reclamation Workforce:									
Hired locally (Phillips/Blaine)	4	17	22						
Hired from outside local area	2	0	1						
Total Workforce	6	17	23						
Reclamation Costs:									
Capital Purchases	\$0	\$0	\$0						
Labor Expenses	\$216,000	\$612,000	\$828,000						
Supplies (local purchase)	\$50,000	\$200,000	\$200,000						
Supplies (nonlocal purchase)	\$189,000	\$2,000,000	\$2,860,000						
Total Annual Costs	\$455,000	\$2,812,000	\$3,888,000						
Long-term maintenance and LAD Costs	\$0	\$0	\$2,869,000						
Total Reclamation & Maintenance Costs for Life of Project	\$10,024,000								
ALTERNATIVE: Z4									
	1999	2000	2001	2002	2003	2004			
Years of Reclamation	X	1	2	3	4	5			
Reclamation Workforce:									
Hired locally (Phillips/Blaine)	4	17	22	20	20	20			
Hired from outside local area	2	0	3	3	3	3			
Total Workforce	6	17	25	23	23	23			
Reclamation Costs:									
Capital Purchases	\$0	\$0	\$0	\$0	\$0	\$1,888,000			
Labor Expenses	\$216,000	\$612,000	\$900,000	\$498,000	\$498,000	\$498,000			
Supplies (local purchase)	\$50,000	\$200,000	\$200,000	\$350,500	\$350,500	\$350,500			
Supplies (nonlocal purchase)	\$189,000	\$2,000,000	\$7,511,000	\$6,569,500	\$6,569,500	\$6,568,500			
Total Annual Costs	\$455,000	\$2,812,000	\$8,611,000	\$7,418,000	\$7,418,000	\$9,305,000			
Long-term maintenance and LAD Costs (\$2,997,000 over 4 years)	\$0	\$0	\$749,250	\$749,250	\$749,250	\$749,250			
Total Reclamation & Maintenance Costs for Life of Project	\$39,016,000								
ALTERNATIVE: Z5									
	1999	2000	2001	2002	2003	2004	2005	2006	
Years of Reclamation	X	1	2	3	4	5	6	7	
Reclamation Workforce:									
Hired locally (Phillips/Blaine)	4	17	20	20	20	20	20	20	
Hired from outside local area	2	0	3	3	3	3	3	3	
Total Workforce	6	17	23	23	23	23	23	23	
Reclamation Costs:									
Capital Purchases	\$0	\$0	\$0	\$0	\$0	\$1,888,000	\$1,888,000	\$1,888,000	
Labor Expenses	\$216,000	\$612,000	\$828,000	\$878,000	\$878,000	\$878,000	\$878,000	\$878,000	
Supplies (local purchase)	\$50,000	\$200,000	\$200,000	\$407,000	\$407,000	\$407,000	\$407,000	\$407,000	
Supplies (nonlocal purchase)	\$189,000	\$2,000,000	\$4,481,000	\$4,626,000	\$4,622,000	\$4,622,000	\$4,621,000	\$4,621,000	
Total Annual Costs	\$455,000	\$2,812,000	\$5,509,000	\$5,911,000	\$5,907,000	\$7,795,000	\$7,794,000	\$7,794,000	
Long Term Maintenance and LAD Costs for Life of Project (\$3,187,000 over 6 yrs)	\$0	\$0	\$531,167	\$531,167	\$531,167	\$531,167	\$531,167	\$531,167	
Total Reclamation & Maintenance Costs for Life of Project	\$47,164,000								
ALTERNATIVE: Z6									
	1999	2000	2001	2002					
Years of Reclamation	X	1	2	3					
Reclamation Workforce:									
Hired locally (Phillips/Blaine)	4	17	22	25					
Hired from outside local area	2	0	1	1					
Total Workforce	6	17	23	26					
Reclamation Costs:									
Capital Purchases	\$0	\$0	\$0	\$0					
Labor Expenses	\$216,000	\$612,000	\$828,000	\$936,000					
Supplies (local purchase)	\$50,000	\$200,000	\$200,000	\$250,000					
Supplies (nonlocal purchase)	\$189,000	\$2,000,000	\$2,582,000	\$3,521,000					
Total Annual Costs	\$455,000	\$2,812,000	\$3,610,000	\$4,707,000					
Long-term maintenance and LAD Costs	\$0	\$0	\$2,869,000	\$560,000					
Total Reclamation & Maintenance Costs for Life of Project	\$15,013,000								
Source: Spectrum Engineering (October, 2000b; January, 2001)									

Table 4: IMPLAN Analysis Inputs for Zortman Direct Expenditures										
Z1										
		<u>Current Conditions</u>	<u>Impacts (Direct)</u>							
	1999	2000	2001	2002	2003					
Local Expenditures:										
Labor	\$198,720	\$563,040	\$1,147,240	\$591,560	\$587,880					
Supplies	\$50,000	\$200,000	\$217,153	\$205,486	\$205,492					
Total Local Expenditures	\$248,720	\$763,040	\$1,364,393	\$797,046	\$793,372					
Nonlocal Expenditures:										
Capital	\$0	\$0	\$0	\$0	\$0					
Labor:	\$17,280	\$48,960	\$99,760	\$51,440	\$51,120					
Supplies	\$189,000	\$2,000,000	\$6,198,847	\$6,499,514	\$6,497,508					
Total Nonlocal Expenditures:	\$206,280	\$2,048,960	\$6,298,607	\$6,550,954	\$6,548,628					
Total Annual Expenditures	\$455,000	\$2,812,000	\$7,663,000	\$7,348,000	\$7,342,000					
Total Project Exp.		\$25,620,000								
Z2		<u>Current Conditions</u>	<u>Impacts (Direct)</u>							
	1999	2000	2001							
Local Expenditures:										
Labor	\$198,720	\$563,040	\$1,386,440							
Supplies	\$50,000	\$200,000	\$254,692							
Total Local Expenditures	\$248,720	\$763,040	\$1,641,132							
Nonlocal Expenditures:										
Capital	\$0	\$0	\$1,888,000							
Labor:	\$17,280	\$48,960	\$120,560							
Supplies	\$189,000	\$2,000,000	\$3,107,308							
Total Nonlocal Expenditures:	\$206,280	\$2,048,960	\$5,115,868							
Total Annual Expenditures	\$455,000	\$2,812,000	\$6,757,000							
Total Project Exp.		\$10,024,000								
Z3		<u>Current Conditions</u>	<u>Impacts (Direct)</u>							
	1999	2000	2001							
Local Expenditures:										
Labor	\$198,720	\$563,040	\$2,081,500							
Supplies	\$50,000	\$200,000	\$300,315							
Total Local Expenditures	\$248,720	\$763,040	\$2,381,815							
Nonlocal Expenditures:										
Capital	\$0	\$0	\$0							
Labor:	\$17,280	\$48,960	\$181,000							
Supplies	\$189,000	\$2,000,000	\$4,194,185							
Total Nonlocal Expenditures:	\$206,280	\$2,048,960	\$4,375,185							
Total Annual Expenditures	\$455,000	\$2,812,000	\$6,757,000							
Total Project Exp.		\$10,024,000								
Z4		<u>Current Conditions</u>	<u>Impacts (Direct)</u>							
	1999	2000	2001	2002	2003	2004				
Local Expenditures:										
Labor	198,720	563,040	1,172,655	802,815	802,815	802,815				
Supplies	50,000	200,000	209,975	370,487	370,487	370,490				
Total Local Expenditures	\$248,720	\$763,040	\$1,382,630	\$1,173,302	\$1,173,302	\$1,173,305				
Nonlocal Expenditures:										
Capital	0	0	0	0	0	\$1,888,000				
Labor:	17,280	48,960	101,970	69,810	69,810	69,810				
Supplies	189,000	2,000,000	7,875,650	6,924,138	6,924,138	6,923,135				
Total Nonlocal Expenditures:	\$206,280	\$2,048,960	\$7,977,620	\$6,993,948	\$6,993,948	\$8,880,945				
Total Annual Expenditures	\$455,000	\$2,812,000	\$9,360,250	\$8,167,250	\$8,167,250	\$10,054,250				
Total Project Exp.		39,016,000								
Z5		<u>Current Conditions</u>	<u>Impacts (Direct)</u>							
	1999	2000	2001	2002	2003	2004	2005	2006		
Local Expenditures:										
Labor	\$198,720	\$563,040	\$1,006,097	\$1,052,097	\$1,052,097	\$1,052,097	\$1,052,097	\$1,052,097		
Supplies	\$50,000	\$200,000	\$211,854	\$430,366	\$430,387	\$430,387	\$430,392	\$430,392		
Total Local Expenditures	\$248,720	\$763,040	\$1,217,950	\$1,482,463	\$1,482,483	\$1,482,483	\$1,482,488	\$1,482,488		
Nonlocal Expenditures:										
Capital	\$0	\$0	\$0	\$0	\$0	\$1,888,000	\$1,888,000	\$1,888,000		
Labor:	\$17,280	\$48,960	\$87,487	\$91,487	\$91,487	\$91,487	\$91,487	\$91,487		
Supplies	\$189,000	\$2,000,000	\$4,734,730	\$4,868,217	\$4,864,197	\$4,864,197	\$4,863,192	\$4,863,192		
Total Nonlocal Expenditures:	\$206,280	\$2,048,960	\$4,822,216	\$4,959,704	\$4,955,683	\$6,843,683	\$6,842,678	\$6,842,678		
Total Annual Expenditures	\$455,000	\$2,812,000	\$6,040,167	\$6,442,167	\$6,438,167	\$8,326,167	\$8,325,167	\$8,325,167		
Total Project Exp.		\$47,164,000								
Z6		<u>Current Conditions</u>	<u>Impacts (Direct)</u>							
	1999	2000	2001	2002						
Local Expenditures:										
Labor	\$198,720	\$563,040	\$2,081,500	\$1,118,720						
Supplies	\$50,000	\$200,000	\$311,115	\$269,881						
Total Local Expenditures	\$248,720	\$763,040	\$2,392,615	\$1,388,601						
Nonlocal Expenditures:										
Capital	\$0	\$0	\$0	\$0						
Labor:	\$17,280	\$48,960	\$181,000	\$97,280						
Supplies	\$189,000	\$2,000,000	\$3,905,385	\$3,781,119						
Total Nonlocal Expenditures:	\$206,280	\$2,048,960	\$4,086,385	\$3,878,399						
Total Annual Expenditures	\$455,000	\$2,812,000	\$6,479,000	\$5,267,000						
Total Project Exp.		\$15,013,000								
Note: Labor expenses includes 50% of long-term maint/LAD costs										
Note: for Supplies, 50% of long-term maint/LAD costs are included in same proportion of local/nonlocal as other supplies.										

**Table 5: Direct Expenditures for Landusky Reclamation Alternatives**

ALTERNATIVE: L1										
	1999	2000	2001	2002	2003	2004				
Years of Reclamation	X	1	2	3	4	5				
Reclamation Workforce:										
Hired locally (Phillips/Blaine)	6	17	20	15	15	15				
Hired from outside local area	0	0	1	1	1	1				
Total Workforce										
Reclamation Costs:										
Capital Purchases	\$0	\$0	\$0	\$0	\$0	\$0				
Labor Expenses	\$216,000	\$612,000	\$756,000	\$576,000	\$576,000	\$576,000				
Supplies (local purchase)	\$100,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000				
Supplies (nonlocal purchase)	\$574,000	\$1,030,000	\$1,019,000	\$10,959,000	\$10,959,000	\$10,959,000				
Total Annual Costs	\$890,000	\$1,842,000	\$1,975,000	\$11,735,000	\$11,735,000	\$11,735,000				
Long-term maintenance and LAD Costs (\$6,278,000 over 4 yrs)	\$0	\$0	\$1,569,500	\$1,569,500	\$1,569,500	\$1,569,500				
Total Reclamation & Maintenance Costs for Life of Project	\$46,190,000									
ALTERNATIVE: L2										
	1999	2000	2001	2002	2003					
Years of Reclamation	X	1	2	3	4					
Reclamation Workforce:										
Hired locally (Phillips/Blaine)	6	17	20	10	10					
Hired from outside local area	0	0	1	0	0					
Total Workforce	6	17	21	10	10					
Reclamation Costs:										
Capital Purchases	\$0	\$0	\$0	\$0	\$0					
Labor Expenses	\$216,000	\$612,000	\$756,000	\$360,000	\$360,000					
Supplies (local purchase)	\$100,000	\$200,000	\$200,000	\$200,000	\$200,000					
Supplies (nonlocal purchase)	\$574,000	\$1,030,000	\$1,296,000	\$4,034,000	\$4,033,000					
Total Annual Costs	\$890,000	\$1,842,000	\$2,252,000	\$4,594,000	\$4,593,000					
Long-term maintenance and LAD Costs (\$5,429,000 over 3 years)	\$0	\$0	\$1,809,667	\$1,809,667	\$1,809,667					
Total Reclamation & Maintenance Costs for Life of Project	\$19,600,000									
ALTERNATIVE: L3										
	1999	2000	2001	2002	2003					
Years of Reclamation	X	1	2	3	4					
Reclamation Workforce:										
Hired locally (Phillips/Blaine)	6	17	20	10	10					
Hired from outside local area	0	0	1	0	0					
Total Workforce	6	17	21	10	10					
Reclamation Costs:										
Capital Purchases	\$0	\$0	\$0	\$0	\$0					
Labor Expenses	\$216,000	\$612,000	\$756,000	\$360,000	\$360,000					
Supplies (local purchase)	\$100,000	\$200,000	\$200,000	\$200,000	\$200,000					
Supplies (nonlocal purchase)	\$574,000	\$1,030,000	\$1,330,000	\$5,841,000	\$5,326,000					
Total Annual Costs	\$890,000	\$1,842,000	\$2,286,000	\$6,401,000	\$5,886,000					
Long-term maintenance and LAD Costs (\$5,450,000 over 3 yrs)	\$0	\$0	\$1,816,667	\$1,816,667	\$1,816,667					
Total Reclamation & Maintenance Costs for Life of Project	\$22,755,000									
ALTERNATIVE: L4	1999	2000	2001	2002	2003	2004				
	X	1	2	3	4	5				
Years of Reclamation										
Reclamation Workforce:										
Hired locally (Phillips/Blaine)	6	17	20	15	15	15				
Hired from outside local area	0	0	1	1	1	1				
Total Workforce	6	17	21	16	16	16				
Reclamation Costs:										
Capital Purchases	\$0	\$0	\$0	\$0	\$0	\$0				
Labor Expenses	\$216,000	\$612,000	\$756,000	\$576,000	\$576,000	\$576,000				
Supplies (local purchase)	\$100,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000				
Supplies (nonlocal purchase)	\$574,000	\$1,030,000	\$682,000	\$8,190,000	\$7,664,000	\$7,664,000				
Total Annual Costs	\$890,000	\$1,842,000	\$1,638,000	\$8,966,000	\$8,440,000	\$8,440,000				
Long-term maintenance and LAD Costs (\$6,910,000 over 4 yrs)	\$0	\$0	\$1,727,500	\$1,727,500	\$1,727,500	\$1,727,500				
Total Reclamation & Maintenance Costs for Life of Project	\$37,126,000									
ALTERNATIVE: L5										
	1999	2000	2001	2002	2003	2004	2005			
Years of Reclamation	X	1	2	3	4	5	6			
Reclamation Workforce:										
Hired locally (Phillips/Blaine)	6	17	20	15	15	15	15			
Hired from outside local area	0	1	1	1	1	1	1			
Total Workforce	6	18	21	16	16	16	16			
Reclamation Costs:										
Capital Purchases	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Labor Expenses	\$216,000	\$612,000	\$756,000	\$576,000	\$576,000	\$576,000	\$576,000			
Supplies (local purchase)	\$100,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000			
Supplies (nonlocal purchase)	\$574,000	\$1,030,000	\$1,238,000	\$13,483,000	\$12,968,000	\$12,968,000	\$12,968,000			
Total Annual Costs	\$890,000	\$1,842,000	\$2,194,000	\$14,259,000	\$13,744,000	\$13,744,000	\$13,744,000			
Long-term maintenance and LAD Costs (\$8,038,000 over 5 yrs)	\$0	\$0	\$1,607,600	\$1,607,600	\$1,607,600	\$1,607,600	\$1,607,600			
Total Reclamation & Maintenance Costs for Life of Project	\$68,455,000									
ALTERNATIVE: L6										
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Years of Reclamation	X	1	2	3	4	5	6	7	8	9
Reclamation Workforce:										
Hired locally (Phillips/Blaine)	6	17	20	20	20	20	20	20	20	20
Hired from outside local area	0	0	1	5	5	5	5	5	5	5
Total Workforce	6	17	21	25	25	25	25	25	25	25
Reclamation Costs:										
Capital Purchases	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Labor Expenses	\$216,000	\$612,000	\$756,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000
Supplies (local purchase)	\$100,000	\$200,000	\$200,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
Supplies (nonlocal purchase)	\$574,000	\$1,030,000	\$1,152,000	\$19,181,000	\$19,181,000	\$19,181,000	\$19,181,000	\$19,181,000	\$19,181,000	\$19,181,000
Total Annual Costs	\$890,000	\$1,842,000	\$2,108,000	\$20,581,000	\$20,581,000	\$20,581,000	\$20,581,000	\$20,581,000	\$20,581,000	\$20,581,000
Long-term maintenance and LAD Costs (\$8,363,000 over 8 yrs)	\$0	\$0	\$1,045,375	\$1,045,375	\$1,045,375	\$1,045,375	\$1,045,375	\$1,045,375	\$1,045,375	\$1,045,375
Total Reclamation & Maintenance Costs for Life of Project	\$157,270,000									
Source: Spectrum Engineering (October, 2000b)										



